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**Date:** 12/21/2007 2:43:11 PM  
**Subject:** Fwd: Documents Needed for Oconee Digital Platform Modification LAR

>>> Iqbal Ahmed 12/21/2007 2:39 PM >>>

This is the current list of documents in TWG#6 for LAR review of a typical modification like that at Oconee. You may please send this information to Duke for their consideration for the LAR package.

**CC:** Evangelos Marinos

**DOCUMENTS NEEDED TO BE DOCKETED PRIOR TO ACCEPTANCE FOR REVIEW FOR A PREVIOUSLY REVIEWED SYSTEM WHICH HAS BEEN MODIFIED SINCE ORIGINAL REVIEW**

*Items in italics will only be reviewed to the degree necessary to verify that the changes meet regulatory requirements, and do not compromise safety.*

**Note - Items in bold print are among the most important documents, and the safety determination will depend on these documents. For this reason, these documents must be submitted on the docket with the license amendment request. The staff may request that other documents also be docketed.**

1. **Commercial Grade Dedication Plans (If not the same as originally used)**
2. **D3 Analysis (includes system modifications and plant specific architecture and use)**
3. Description of system in sufficient detail to determine compliance with the ISG#4 on Communications
4. Design Analysis Report (includes system modifications and plant specific architecture and use)
5. *Design Report on computer integrity, test and calibration; and Fault detection and self-diagnostics (to the degree to which these were affected by the system modifications)*
6. Detailed theory of operation description. (includes system modifications and plant specific architecture and use)
7. ~~Draft Set point methodology~~
8. *EMI, Temperature, Humidity, and Seismic testing plans (to the degree to which these were affected by the system modifications - may require complete retest.)*
9. Software QA Plan / Procedures (includes system modifications and plant specific architecture and use)
10. **System description to block diagram level (includes system modifications and plant specific architecture and use)**
11. **Hardware & Software Architecture Descriptions (includes system modifications and plant specific architecture and use)**
12. Preliminary FMEA (non-docketed)
13. ~~Quality Assurance Plan for digital hardware and software (This was not modified)~~
14. Preliminary Reliability Analysis Descriptions (includes system modifications and plant specific architecture and use)
15. Safety Analysis Descriptions (includes system modifications and plant specific architecture and use)
16. **System Requirements Specification Descriptions (includes system modifications and plant specific architecture and use)**
17. *System Test Plan (Since this was changed, this needs to be re-reviewed)*
18. Software Life Cycle Documentation
  - a. ~~Software CM Plan (This was not modified)~~
  - b. Software Design Specification (includes system modifications and plant specific architecture and use)
  - c. *Software Development Plan (Since this was changed, this needs to be re-reviewed)*
  - d. ~~Software Installation Plan (This was not modified)~~
  - e. ~~Software Integration Plan (This was not modified)~~

- ~~f. Software Maintenance Plan (This was not modified)~~
  - ~~g. Software Management Plan (This was not modified)~~
  - ~~h. Software Operations Plan~~
  - ~~i. Software Project Risk Management Program (This was not modified)~~
  - j. Software Requirements Specification (Plant specific applications software only)
  - k. Software Safety Plan (Plant specific applications only)
  - l. *Software Test Plan (Since this was changed, this needs to be re-reviewed)*
  - m. *Software Tool Verification Program (Since this was changed, this needs to be re-reviewed)*
  - n. ~~Software Training Plan~~
  - o. *Software V&V Plan and procedures (Since this was changed, this needs to be re-reviewed)***
19. Requirement Traceability Matrix (Plant specific applications software only)

**DOCUMENTS NEEDED TO BE DOCKETED WITHIN SIX MONTHS OF SER ISSUANCE  
FOR A PREVIOUSLY REVIEWED SYSTEM WHICH HAS BEEN MODIFIED SINCE  
ORIGINAL REVIEW**

*Items in italics will only be reviewed to the degree necessary to verify that the changes meet regulatory requirements, and do not compromise safety.*

**Note - Items in bold print are among the most important documents, and the safety determination will depend on these documents. For this reason, these documents must be submitted on the docket with the license amendment request. The staff may request that other documents also be docketed.**

1. **Commercial Grade Dedication Report (To the degree needed to account for changes.)**
2. *Commercial Grade Dedication Procedures (To the degree needed to account for changes.)*
4. ~~Final configuration lists (moved to regional inspection page)~~
5. ~~Final configuration tables (moved to regional inspection page)~~
6. Final design description (plant specific application)
7. **Final FMEA (To the degree needed to account for changes.)**
8. Final logic diagrams. (plant specific application)
9. **Final Reliability Analysis (To the degree needed to account for changes.)**
10. *Final Report on acceptance of commercial grade dedication (To the degree needed to account for changes.)*
11. Instrument Set point methodology (only if not previously reviewed and approved)
12. Final System Configuration Documentation (plant specific application)
13. **Final Test Reports (Factory Acceptance test - other test moved to inspection.)**
14. Installation Test Plans and procedures. (plant specific application)
15. ~~Operations manuals~~
16. Updated system qualification test procedures (To the degree needed to account for changes.)
17. ~~Quality Assurance Procedures for digital hardware and software (This was not modified)~~
18. **Summary of final EMI, Temperature, Humidity, and Seismic testing results (To the degree needed to account for changes.)**
19. **Summary of Fat Test Results (SAT and acceptance test moved to regional responsibility)**
20. System Test procedures;
21. *Testing procedures and EMI, Temperature, Humidity, and Seismic testing results (To the degree needed to account for changes.)*
22. Software Life Cycle Documentation
  - a. Software Management implementing procedures
  - b. Software Project Risk Management Report
  - c. Software Test Procedures (unit and integration test)
  - d. *Software Tool Analysis Report (new tools require a new analysis)*
23. V&V Reports

**DOCUMENTS AVAILABLE FOR AUDIT – NON DOCKETED FOR A PREVIOUSLY  
REVIEWED SYSTEM WHICH HAS BEEN MODIFIED SINCE ORIGINAL REVIEW**

1. Completed Factory Acceptance Test procedure / reports
2. Configuration Management Reports
3. Detailed system and hardware drawings
4. Final circuit schematics
5. Final Software Integration Report;
6. Individual completed test procedures / reports
7. Individual V&V Problem reports up to FAT
8. ~~Maintenance manuals~~
9. ~~Operations procedures~~
10. Set point calculations
11. Software code listings.
12. ~~Training manuals & course material~~
13. Vendor Build Documentation